ZOOLOGICAL NAMES

A List of

Phyla, Classes, and Orders

Prepared for

Section F

American Association for the Advancement of Science

Durham, North Carolina
1947

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PREFACE

American zoological writers who have published books or scientific papers during the past decade show little uniformity in their reference to larger groups of animals. Of course no zoologist wishes to be limited in the choice of names which seem to be most appropriate; no one wishes to have imposed on him terms which he is ordered to use; and none desires to have nomenclature become fixed and inflexible. Of all the rewards that Science gives to her retainers those most prized and enjoyed are independence and the right to change old dogmas as soon as the discovery of new truths makes them illogical. Yet because the species of animals now number several hundreds of thousands, the sorting of species into groups must necessarily be continually more accurate and critical. Furthermore, there are men who through ignorance, inertia, or bigotry take little or no cognizance of the progress of current scientific evidence and opinion. For example, certain writers of recent textbooks use such old terms as Annulata and Anura when the most thoughtful and competent students of annelids and amphibians agree that Annelida and Salientia are to be preferred. Dr. R. E. Snodgrass, who has recently studied the anatomy of onychophorans in detail, is convinced that these animals cannot be called arthropods because their muscular systems have quite different relations to nervous structures from those which obtain in arthropods. Dr. J. P. Moore does not believe that onychophorans may be included among annelids. There seems to be no alternative but to set off Onychophora as a group by itself.

Those who know animals and their classifications in detail perhaps may enjoy using various names for the same group and delight in thus displaying their technical knowledge, but a novice who refers to two or three textbooks and finds the same group called by two or three names is greatly confused. In an attempt to bring about greater uniformity and more careful selection in the use of zoological group names the writer was authorized to form an informal committee and to prepare a list of phyla, classes, and orders of animals which would represent current good usage. This action was taken by Section F of the American Association for the Advancement of Science at the Boston Meeting; December, 1933.

Since then many persons who appeared to be interested have been consulted. The following gave advice in connection with the groups mentioned:

Invertebrata: A. H. Clark, B. G. Chitwood, Roy Miner, L. E. Noland, H. S. Pratt, Waldo Schmitt, H. J. Van Cleave.

Protozoa: *L. E. Noland,* and forty-odd protozoologists to whom he sent a questionnaire.

Porifera: *H. V. Wilson.*

Coelenterata: *Elizabeth Deichmann* (except Zoantharia).

Aschelminthes: *B. G. Chitwood,* M. C. Hall.

Platyhelminthes: E. B. Price.

Cestoda: *G. R. La Rue.*

Nemertea: W. R. Coe.

Nemathelminthes: *B. G. Chitwood,* G. Steiner.

Acanthocephala: *H. J. Van Cleave.*

Bryozoa: *R. S. Bassler,* R. C. Osburn.

Echinodermata: A. H. Clark, *H. L. Clark,* E. Kirk.

Brachiopoda: G. A. Cooper.

Enteropneusta: W. E. Ritter.

Annelida: J. P. Moore, A. L. Treadwell.

Anthropoda: H. E. Ewing, R. E. Snodgrass.

Crustacea: E. A. Birge, Norma C. Furtos, H. A. Pilsbry, *Mary J. Rathbun*, Waldo Schmitt, J. P. Visscher, C. B. Wilson.
Pycnogonidia: *L. J. Cole.*
Arachnida: *H. E. Ewing.*
Insecta: C. L. Kennedy, *Z. P. Metcalf*, J. G. Needham, H. G. Barber, H. E. Ewing.
Mollusca: *P. Bartsch*, H. Rehder.
Chordata: C. W. Gilmore, W. K. Gregory.
Tunicata: *W. E. Ritter*, W. G. Van Name.
Pisces: W. K. Gregory, C. L. Hubbs, W. G. Myers.
Amphibia: Helen T. Gaige, *G. K. Noble.*
Reptilia: Helen T. Gaige, G. K. Noble.
Aves: *A. Wetmore.*
Mammalia: *L. R. Dice*, C. W. Gilmore, Remington Kellogg.

Those whose names appear in italics furnished essentially the terms that appear in the following pages. While the writer gladly acknowledges the obligation to those persons and appreciates greatly the work they did, they are not to be held responsible for the published list. The differences of opinion among zoologists in the United States were found to be so great that there was little hope of agreement and the editor finally did what seemed to him best.

Perhaps forty per cent of those consulted strongly urged the use of uniform endings for the larger groups of animals. The difficulty encountered in this connection was that protozoologists, helminthologists, conchologists, ornithologists, etc. had already moved more or less in the direction of uniformity and each group of specialists had a tendency to adopt a different system. After long consideration the editor has used the system in vogue among protozoologists and students of some other groups, as it seemed to be at present more generally in use than any other. The endings are as follows: Phylum and Subphylum,—*a*; Class, —*ca*; Subclass, —ia; Order, —ida; Suborder, —ina. In presenting this report to Section F it is not supposed that uniform endings shall be adopted as official, or even recommended. The zoological world had perhaps best be left to make its own choice. In the list the names in the first column represent what the editor after consultation believes to be best current usage; those in the second column are what a few zoologists would like to see used, but perhaps in presenting these the editor is "a hundred years ahead of his time." In any attempt to attain uniformity difficulties arise. For example, Dr. Steiner points out that two names suggested as suborders under Nematoda are objectionable because identical names already have good standing as genera in the same group (Rhabditina Cobb 1922, Chromadorina Filipjev 1926).

Another matter about which there is wide disagreement is whether there should be few or many groups—the old controversy between "lumpers" and "splitters." Shall there be ten or thirty phyla, or orders of insects? The position has been taken that it is more truthful, and therefore more scientific, to present many groups; otherwise it is necessary to compromise to the extent of grouping things together which have remote or insignificant relationships. To the objection that students cannot be expected to master such a long list of technical jargon there is only one answer. It is better to tell students part of the truth frankly than to falsely affirm that they are learning a complete and simple story. Biology is not always simple and clear. It therefore seems proper to say to a student in an elementary course, "of the thirty-odd phyla of animals, or orders of insects, only ten or a dozen which are of particular biological significance to you will be studied," rather than, "for convenience and simplicity all animals, or all insects, are presented under ten phyla, or orders, which may be easily remembered." Science is truth. Classification must be expected to grow more complex as knowledge increases and becomes more critical.

In most groups the authors names and the dates following correctly indicate when a particular scientific name was given to a group, but these should be used with caution

tor in cases where no specialist could be found to furnish accurate information (birds, fishes, etc.), the editor browsed through systematic works and found such information, some of which later proved to be incorrect. For example, some references credited to Lamarck by various writers are for vernacular names which should have no scientific standing as scientific names. The following groups have been carefully corrected by specialists and are believed to be reliable for authors and dates: Protozoa, Porifera, Coelenterata (except Zoantharia), Platyhelminthes, Nemertea, Acanthocephala, Nematoda, Bryozoa, Brachiopoda, Echinodermata, Annelida, Arachnida, Crustacea, Insecta, Tunicata, Amphibia, Reptilia, and Mammalia; other groups may not be.

A. S. Pearse, Editor.

Duke University,
June 1, 1936.

PREFACE

SECOND EDITION

As there is continual demand for this list, which has been out of print for several years, it seems desirable to publish a second edition. A few changes have been made and the following persons made suggestions for the revision. A. H. Clark suggested the term Hemizoa and other general changes. Grateful acknowledgment is made to G. W. Wharton who corrected the proofs for the list. An excellent discussion of various modern systems of classification will be found in Libbie H. Hyman's "The Invertebrates: Protozoa through Ctenophora," 1940:22-43.

Invertebrata: A. H. Clark, C. G. Bookhout
Protozoa: R. R. Kudo
Porifera: M. W. deLaubenfels
Nemertea: W. R. Coe
Acanthocephala: H. J. Van Cleave
Bryozoa: R. C. Osburn
Annelida: Grace E. Pickford
Arthropoda: R. E. Snodgrass
Pycnogonidia: Joel W. Hedgpeth
Arachnida: Elizabeth B. Bryant
Acarina: G. W. Wharton
Myriapoda: Nelle B. Causey
Crustacea: Fenner R. Chace
Insecta: C. F. W. Muesebeck and colleagues
Tunicata: W. G. Van Name
Vertebrata: E. C. Horn, I. E. Gray

A. S. Pearse, Editor.

Duke University
September 1, 1947

A List of Phyla, Classes, and Orders

Extinct groups are indicated by an asterisk (*)

Kingdom Animalia Linnaeus 1758 ..... Animalia
Subkingdom Protozoa Goldfuss 1820 ..... Protozoa
Phylum Protozoa Goldfuss 1820 ..... Protozoa
Subphylum Plasmodroma Doflein 1901 ..... Plasmodroma
Class Mastigophora Diesing 1866 ..... Mastigophorea
Subclass Phytomastigina Doflein 1920 ..... Phytomastigia
Order Chrysomonadina Stein 1878 ..... Chrysomonadida
Suborder Euchrysomonadina Pascher 1913 ..... Euchrysomonadina
Suborder Rhyzochrysidina Pascher 1913 ..... Rhizochrysidina
Suborder Chrysocapsina Pascher 1913 ..... Chrysocapsina
Order Cryptomonadina Stein 1878 ..... Cryptomonadida
Suborder Eucryptomonadina Pascher 1913 ..... Eucryptomonadina
Suborder Phoeocapsina Pascher 1913 ..... Phoeocapsina
Order Phytomonadina Blochmann 1895 ..... Phytomonadida
Order Euglenoidina Blochmann 1895 ..... Euglenoidida
Order Chloromonadina Klebs 1893 ..... Chloromonadida
Order Dinoflagellata Bütchli 1885 ..... Dinoflagellida
Suborder Porocentrinea Poche 1903 ..... Prorocentrina
Suborder Peridiniinea Poche 1903 ..... Peridiniina
Suborder Cystoflagellata Haeckel 1866 ..... Cystoflagellina
Subclass Zoomastigina Doflein 1901 ..... Zoomastiginia
Order Rhizomastigina Bütchli 1885 ..... Rhizomastigida
Order Protomastigina Blochmann 1895 ..... Protomastigida
Order Polymastigina Blochmann 1895 ..... Polymastigida
Suborder Monomonadina Kudo 1939 ..... Monomonadina
Suborder Diplomonadina Kudo 1939 ..... Diplomonadina
Suborder Polymonadina Kudo 1939 ..... Polymonadina
Order Hypermastigina Grassi 1895 ..... Hypermastigida
Class Sarcodina Hertwig & Lesser 1874 ..... Scarcodinea
Subclass Rhizopoda von Siebold 1845 ..... Rhizopodia
Order Proteomyxa Lankester 1909 ..... Proteomyxida
Order Mycetozoa de Bary 1859 ..... Mycetozoida
Suborder Eumycetozoa Kudo 1939 ..... Eumycetozoina
Suborder Sorophora Kudo 1939 ..... Sorophorina
Order Amoebina Claparède & Lachmann 1858 ..... Amoebida
Order Testacea Schultze 1854 ..... Testacida
Order Foraminifera D'Orbigny 1826 ..... Foraminiferida
Subclass Actinopoda Calkins 1926 ..... Actinopodia
Order Heliozoa Haeckel 1866 ..... Heliozoida
Order Radiolaria J. Müller 1858 ..... Radiolarida
Class Sporozoa Leuckart 1879 ..... Sporozoea
Subclass Telosporidia Schaudinn 1900 ..... Telosporidia
Order Gregarinida Lankester 1866 ..... Gregarinida
Suborder Eugregarinina Doflein 1929 ..... Eugregarinina
Suborder Schizogregarinaria Leger 1907 ..... Schizogregarinina
Order Coccidia Leuckart 1879 ..... Coccidida

Suborder Eimerida Leger 1909 ..... Eimerina
Suborder Adeleidea Leger 1909 ..... Adeleina
Order Haemosporidia Danilewsky 1886 ..... Haemosporida
Subclass Acnidosporidia Cépède 1924 ..... Acnidosporidia
Order Sarcosporidia Balbiani 1882 ..... Sarcosporida
Order Haplosporidia Caullery & Mesnil 1899 ..... Haplosporida
Subclass Cnidosporidia Doflein 1901 ..... Cnidosporidia
Order Myxosporidia Bütschli 1880 ..... Myxosporida
Suborder Eurysporea Kudo 1933 ..... Eurysporina
Suborder Sphaerosporea Kudo 1933 ..... Sphaerosporina
Suborder Platysporea Kudo 1933 ..... Platysporina
Order Actinomyxidia Stole 1899 ..... Actinomyxida
Order Microsporidia Balbiani 1883 ..... Microsporida
Suborder Monocnidea Leger & Hesse 1905 ..... Monocnidina
Suborder Dicnidea Leger & Hesse 1905 ..... Dicnidina
Order Helicosporidia Kudo 1924 ..... Helicosporida
Subphylum Ciliophora Doflein 1901 ..... Ciliophora
Class Ciliata Perty 1852 ..... Ciliatea
Subclass Protociliata Metcalf 1918 ..... Protociliatia
Order Opalinata Stein 1867 ..... Opalinida
Subclass Euciliata Metcalf 1918 ..... Euciliatia
Order Holotricha Stein 1859 ..... Holotrichida
Suborder Astomata Minchin 1912 ..... Astomina
Suborder Gymnostomata Bütchli 1889 ..... Gymnostomina
Suborder Trichostomata Bütchli 1889 ..... Trichostomina
Suborder Hymenostomata Stokes 1884 ..... Hymenostomina
Suborder Thigmotricha Chatton & Lwoff 1926 ..... Thigmotrichina
Suborder Apostomea Chatton & Lwoff 1935 ..... Apostomina
Order Spirotricha Bütchli 1889 ..... Spirotrichida
Suborder Heterotricha Stein 1859 ..... Heterotrichina
Suborder Oligotricha Bütchli 1889 ..... Oligotrichina
Suborder Ctenostomata Kahl 1932 ..... Ctenostomina
Suborder Hypotricha Stein 1859 ..... Hypotrichina
Order Chonotricha Wallengren 1896 ..... Chonotrichida
Order Peritricha Stein 1859 ..... Peritrichida
Suborder Sessilia Kahl 1895 ..... Sessilina
Suborder Mobilia Kahl 1895 ..... Mobilina
Class Suctoria Claparede & Lachmann 1858 ..... Suctorea
Subkingdom Mesozoa van Beneden 1877 ..... Mesozoa
Subkingdom Hemizoa *Nom nov.* ..... Hemizoa
Branch Parazoa Sollas 1884 ..... Parazoa
Phylum Porifera Grant 1835 ..... Porifera
Class Calcispongae Schmidt 1870 ..... Calcispongea
Order Asconosa de Laubenfels 1932 ..... Asconosida
Order Syconosa de Laubenfels 1932 ..... Syconosida
Class Halospongiae Vosmaer 1887 ..... Halospongea
Order Hexasterophora Schulze 1899 ..... Hexasterophorida
Order Amphidiscophora Schulze 1899 ..... Amphidiscophorida
Class Desmospongiae Sollas 1884 ..... Desmospongea
Order Carnosa Carter 1875 ..... Carnosida
Order Choristida Sollas 1888 ..... Choristida
Order Hadromerina Topsent 1898 ..... Hadromerinida
Order Poecilosclerina Topsent 1898 ..... Poecilosclerinida

ZOOLOGICAL NAMES

Corrections on Page 6:

For Calcispongae, read Calcispongiae
For Halospongee, read Hyalospongae

Page 7: after Order Keratosa, add
Phylum Archaeocyathida Raymond 1931

Order Haplosclerina Topsent 1898 ..... Haplosclerinida
Order Keratosa Grant 1861 ..... Keratosida
Subkingdom Metazoa Haeckel 1877 ..... Metazoa
Branch Enterozoa Lankester 1878 ..... Enterozoa
Phylum Coelenterata Leuckart 1848 ..... Coelenterata
Subphylum Cnidaria Milne-Edwards & Haime 1857 ..... Cnidaria
Class Hydrozoa Huxley 1857 ..... Hydrozoea
Order Hydroida Huxley 1857 ..... Hydroida
Order Trachylina Haeckel 1877 ..... Trachylida
Order Milleporina Hickson 1899 ..... Milleporida
Order Stylasterina Hickson 1899 ..... Stylasterida
Order Siphonophora Escholtz 1829 ..... Siphonophorida
Suborder Calycophorae Leuckart 1854 ..... Calcyphorina
Suborder Rhizophysaliae Chun 1882 ..... Rhizophysalina
Suborder Chondrophorae Chamisso & Eysenhard 1821 ..... Chondrophorina
Class Scyphozoa Grobben 1910 ..... Scyphozoea
Order Lucernariidea Johnston 1847 ..... Lucernarida
Order Charybdeidea Gegenbaur 1856 ..... Charybdida
Order Corona Vanhoffen 1892 ..... Coronida
Order Semaeostomeae L. Agassiz 1862 ..... Semaeostomida
Order Rhizostomeae Cuvier 1799 ..... Rhizostomida
Class Anthozoa Ehrenberg 1834 ..... Anthozoea
Subclass Alcyonaria Milne-Edwards & Haime 1857 ..... Alcyonaria
Order Stolonifera Hickson 1883 ..... Stoloniferida
Order Telestacea Hickson 1930 ..... Telestacida
Order Alcyonacea Verrill 1866 ..... Alcyonacida
Order Gorgonacea Verrill 1866 ..... Gorgonacida
Suborder Scleraxonia Wright & Struder 1889 ..... Scleraxonina
Suborder Holaxonia Wright & Struder 1889 ..... Holaxonina
Order Coenothecalia Bourne 1900 ..... Coenothecalida
Order Pennatulacea Verrill 1866 ..... Pennatulacida
Subclass Zoantharia Blainville 1830 ..... Zoantharia
Order Cerianthidea M.-Edw. & Haime 1857 ..... Cerianthida
Order Antipitharia Dana 1846 ..... Antipithida
Order Zoanthidea Dana 1846 ..... Zoanthida
Order Edwardsiidea R. Hertwig 1888 ..... Edwardsiida
Order Proactiniae McMurrich 1892 ..... Proactinida
Order Actinaria McMurrich 1829 ..... Actiniarida
Suborder Ptychodaetiaria Stephenson 1921 ..... Ptychodaetiarina
Suborder Coralliomorpharia Carlgren 1936 ..... Coralliomorpharina
Suborder Actiniaria Carlgren 1925 ..... Actiniarina
Order Madreporaria Linnaeus 1748 ..... Madreporarida
Suborder Aporosa M.-Edw. & Haime 1857 ..... Aporosina
Suborder Fungacea M.-Edw. & Haime 1857 ..... Fungacina
Suborder Perforata M.-Edw. & Haime 1857 ..... Perforina
Subphylum Acnidaria Krumbach 1925 ..... Acnidaria
Class Tentaculata Wagner 1834 ..... Tentaculatea
Order Cydippidea Lesson 1843 ..... Cydippida
Order Lobata Eschscholtz 1829 ..... Lobatida
Order Cestoidea Lesson 1843 ..... Cestida
Order Platyctenea Bourne 1900 ..... Platyctenida
Class Nuda Bourne 1900 ..... Nudea
Order Beroidea Eschscholtz 1829 ..... Beroida
Subbranch Triploblastica Lankester 1900 ..... Triploblastica

Series Enterocoela Lankester 1876 ..... Enterocoela
Subseries Parenchymata ..... Parenchymata
Phylum Platyhelminthes Gegenbaur 1859 ..... Platyhelmintha Vogt 1851
Class Turbellaria Ehrenberg 1831 ..... Turbellarea
Order Acoela Uljanin 1870 ..... Acoelida
Order Rhabdocoela Ehrenberg 1831 ..... Rhabdocoelida
Order Alloeocoela Graff 1882 ..... Alloeocoelida
Order Tricladida Ehrenberg 1831 ..... Tricladida
Order Polycladida Lang 1882 ..... Polycladida
Order Temnocephalida Haswell 1888 ..... Temnocephalida
Class Trematoda Rudolphi 1808 ..... Trematodea
Subclass Monogenea Carus 1863 ..... Monogenia
Order Monopisthodiscinea Furmann 1928 ..... Monopisthodiscinida
Order Monopisthocotylinea Odhner 1912 ..... Monopisthocotylinida
Order Polyopithocotylinea Odhner 1912 ..... Polyopisthocotylinida
Subclass Digenea Carus 1863 ..... Digenia
Order Gasterostoma Odhner 1905 ..... Gasterostomida
Order Prostomata Odhner 1905 ..... Prostomida
Suborder Aspidocotylea Burmeister 1856 ..... Aspidocotylina
Suborder Monostomata Zeder 1800 ..... Monostomina
Suborder Strigeidea La Rue 1926 ..... Strigeina
Suborder Amphistomata Rudolphi 1801 ..... Amphistomatina
Suborder Distomata Leuckart 1856 ..... Distomatina
Class Cestoidea Rudolphi 1808 ..... Cestodea
Subclass Cestodaria Monticelli 1892 ..... Cestodaria
Order Amphilinidea Poche 1922 ..... Amphilinida
Order Gyrocotylidea Benham 1901 ..... Gyrocotylida
Subclass Cestoda van Beneden 1848 ..... Cestodia
Order Pseudophyllidea van Beneden 1850 ..... Pseudophyllida
Order Tetraphyllidea Schmarda 1871 ..... Tetraphyllida
Order Cyclophyllidea Braun 1900 ..... Cyclophyllida
Phylum Nemertea Siebold & Stannius 1842 ..... Nemertea
Order Paleonemertea Hubrect 1879 ..... Paleonemertida
Order Heteronemertea Bürger 1892 ..... Heteronemertida
Order Hoplonemertea Hubrect 1879 ..... Hoplonemertida
Suborder Polystilifera Brinkmann 1917 ..... Polystiliferina
Suborder Monostilifera Brinkmann 1917 ..... Monostiliferina
Order Bellonemertea Coe 1905 ..... Bellonemertida
Phylum Acanthocephala Rudolphi 1808 ..... Acanthocephala
Class Eoacanthocephala Van Cleave 1936 ..... Eoacanthocephalea
Order Gyracanthocephala Van Cleave 1936 ..... Gyroacanthocephalida
Order Neoacanthocephala Van Cleave 1936 ..... Neoacanthocephalida
Class Metacanthocephala Van Cleave 1947 ..... Metacanthocephaleda
Order Palaeacanthocephala Meyer 1931 ..... Palaeacanthocephalida
Order Archiacanthocephala Meyer 1931 ..... Archiacanthocephalida
Series Coelomocoela Lankester 1900 ..... Coelomocoela
Subseries Prosopygia Lang 1888 ..... Prosopygea
Subseries Aschelminthes Grobben 1909 ..... Aschelmintha
Phylum Rotatoria Lamarck 1816 ..... Rotatoria
Class Seisonidea Plate 1886 ..... Seisonidea
Class Belloidea Hudson & Gosse 1889 ..... Belloidea
Class Monogonota Ehrenberg 1832 ..... Monogonontea
Order Plioma Hudson & Gosse 1889 ..... Pliomida

Order Floscularíacae Harring 1913 ..... Flosculárida
Order Collothecacae Harring 1913 ..... Collothecida
Phylum Gastrotricha Metchnickof 1865 ..... Gastrotricha
Order Macrodasyoidea Zelinka 1889 ..... Macrodasida
Order Chaetonotoidea Zelinka 1883 ..... Chaetonotida
Phylum Echinodera Zelinka 1928 (Kinorhyncha Dujardin 1851) ..... Echinodera
Phylum Nematomorpha Potts 1908 ..... Nematomorpha
Class Gordididea Orthepp 1924 ..... Gordididea
Class Nectonematoidea Rauther 1930 ..... Nectonematoidea
Phylum Nematoda Rudolphi 1808 ..... Nematoda
Class Phasmidia Chitwood & Chitwood 1933 ..... Phasmidea
Order Rhabditida Chitwood 1933 ..... Rhabditida
Suborder Rhabditata Chitwood 1933 ..... Rhabditina
Suborder Ascaridata Skrjabin 1915 ..... Ascaridina
Suborder Strongylata Railliet & Henry 1913 ..... Strongylina
Order Spirurida Chitwood 1933 ..... Spirurida
Suborder Spirurata Railliet & Henry ..... Spirurina
Suborder Camallanata Chitwood 1936 ..... Cammallanina
Class Aphasmidia Chitwood & Chitwood 1933 ..... Aphasmidea
Order Enoplata Chitwood 1933 ..... Enoplida
Suborder Enoplata Filipjev 1929 ..... Enoplina
Suborder Dorylaimata Chitwood 1933 ..... Dorylaimina
Suborder Dioctophymata Skrjabin 1923 ..... Dictophymatina
Order Chromadorida Chitwood 1933 ..... Chromadorida
Suborder Monohysterata Filipjev 1929 ..... Monohysterina
Suborder Desmoscolecata Filipjev 1929 ..... Desmoscolecina
Suborder Chromadorata Filipjev 1929 ..... Chromadorina
Phylum Tardigrada Spallanzani 1776 ..... Tardigrada
Class Heterotardigrada Marcus 1927 ..... Heterotardigradea
Order Arthrotardigrada Marcus 1927 ..... Arthrotardigradida
Order Echiniscoidea Richters 1926 ..... Echiniscida
Class Eutardigrada Richters 1926 ..... Eutardigradea
Phylum Chaetognatha Leuckart 1854 ..... Chaetognatha
Phylum Bryozoa Ehrenberg 1831 ..... Bryozoa
Class Entoprocta Nitsche 1869 ..... Entoproctea
Class Ectoprocta Nitsche 1869 ..... Ectoproctea
Subclass Gymnolaemata Allman 1856 ..... Gymnolaemia
Order Cyclostomata Busk 1852 ..... Cyclostomida
Suborder Tubipora Hagenow 1851 ..... Tubiporina
Suborder Cerioporina Hagenow 1851 ..... Cerioporina
Suborder Ceramoporoidea Bassler 1913 ..... Ceramoporina
Suborder Hedrelloidea Bassler 1934 ..... Hedrellina
Order Trepostomata Ulrich 1883 ..... Trepostomida
Order Cryptostomata Vine 1883 ..... Cryptostomida
Order Ctenostoma Busk 1852 ..... Ctenostomida
Order Cyclostomata Busk 1852 ..... Cyclostomida
Suborder Anasca Levinsen 1909 ..... Anascina
Suborder Ascophora Levinsen 1909 ..... Ascophorina
Subclass Phylactolaemata Allman 1856 ..... Phylactolaemia
Phylum Brachiopoda Cuvier 1802 ..... Brachiopoda
Order Palaeotremata Thompson 1927 ..... Palaeotrematida
Order Atremata Beecher 1891 ..... Atrematida
Order Neotremata Beecher 1891 ..... Neotrematida

Order Protremata Beecher 1891 ..... Protrematida
Order Telotremata Beecher 1891 ..... Telotrematida
Phylum Pterobranchia Lankester 1877 ..... Pterobrancha
Phylum Enteropneusta Gegenbaur 1870 ..... Enteropneusta
Class Balanoglossida Delle Chiaje 1820 ..... Balanoglossea
Phylum Linguatula Frolich 1789 ..... Linguatula
Phylum Echinodermata Laske 1778 ..... Echinodermata
Subphylum Pelmatozoa Leuckart 1848 ..... Pelmatozoa
Class *Cystoidea von Buch 1844 ..... *Cystoidea
Order *Amphoridea Haeckel 1896 ..... *Amphorida
Order *Rhombifera Zittel 1879 ..... *Rhombiferida
Order *Diploporita Zittel 1879 ..... *Diploporitida
Order *Aporita Zittel 1879 ..... *Aporitida
Order *Edrioasteroida Billings 1858 ..... *Edrioasterida
Class *Blastoidea Say 1925 ..... *Blastoidea
Order *Protoblastoida Bather 1899 ..... *Protoblastida
Order *Eublastoida Bather 1899 ..... *Eublastida
Class Crinoidea Miller 1921 ..... Crinoidea
Order *Camerata Wachsmuth & Springer 1885 ..... *Camerida
Order *Adunata Bather 1899 ..... *Adunida
Order Flexibilia Zittel 1879 ..... Flexibilida
Suborder *Sagenocrinida Springer 1926 ..... *Sagenocrinina
Suborder Taxocrinida Springer 1926 ..... Taxocrinina
Order *Inadunata Wachsmuth & Springer 1885 ..... *Inadunida
Suborder *Larviformia Wachsmuth & Springer 1885 ..... *Larvina
Suborder *Fistulata Wachsmuth & Springer 1885 ..... *Fistulina
Order Articulata Miller 1821 ..... Articulatida
Suborder Bourgueticrinida H. L. Clark 1939 ..... Bourgueticrinina
Suborder Pentacrinida Claus 1868 ..... Pentacrinina
Suborder Holopida Haeckel 1896 ..... Holopina
Order Comatulida (Parks 1891) A. H. Clark 1908 ..... Comatulida
Suborder Oligophreata A. H. Clark 1908 ..... Oligophreina
Suborder Macrophreata A. H. Clark 1908 ..... Macrophreina
Subphylum Asterozoa Leuckart 1848 ..... Asterozoa
Class Asteroidea Burmeister 1837 ..... Asteroidea
Order Phanerozonea Sladen 1889 ..... Phanerozonida
Order Spinulosa Perrier 1894 ..... Spinulosida
Order Forcipulata Perrier 1894 ..... Forcipulalida
Class Ophiuroidea Norman 1865 ..... Ophiuroidea
Subclass *Aegophiurida Matsumoto 1915 ..... *Aegophiuria
Order *Lysophiurida Matsumoto 1913 ..... *Lysophiurida
Subclass Myophiurida Matsumoto 1915 ..... Myophiuria
Order *Ophiocystiida H. L. Clark 1939 ..... *Ophiocystiida
Order *Aganasterida H. L. Clark 1939 ..... *Aganasterida
Order Phrynophiurida Matsumoto 1915 ..... Phrynophiurida
Order Laemophiurida Matsumoto 1915 ..... Laemophiurida
Order Gnathophiurida Matsumoto 1915 ..... Gnathophiurida
Order Chilophiurida Matsumoto 1915 ..... Chilophiurida
Subphylum Echinozoa Leuckart 1848 ..... Echinozoa
Class Echinoidea Bronn 1860 ..... Echinoidea
Order *Bothriocidaroida Duncan 1889 ..... *Bothriocidaroida
Order Cidaroida Duncan 1889 ..... Cidaroida
Order Centrechinoida Jackson 1912 ..... Centrechinoida

Suborder Aulodonta Jackson 1912.....Aulodontina
Suborder Stirodonta Jackson 1912.....Stirodontina
Suborder Camerodonta Jackson 1912.....Camerodontina
Order Exocycloida Jackson 1912.....Exocycloida
Suborder Holectypina Gregory 1900.....Holectypina
Suborder Echinoneina Hawkins 1925.....Echinoneina
Suborder Clypeastrina Gregory 1900.....Clypeastrina
Suborder Nucleolitina Hawkins 1925.....Nucleolitina
Suborder Cassidulina Hawkins 1925.....Cassidulina
Suborder Urechinina H. L. Clark 1925.....Urechinina
Suborder Spatangina Jackson 1912.....Spatangina
Order Perischoechinoida Jackson 1912.....Perischoechinoida
Order Echinocystoida Jackson 1912.....Echinocystoida
Order Perichoechinoida Jackson 1912.....Periechoechinoida
Class Holothurioidea Semper 1868.....Holothurioidea
Order Dendrochirota MacBride 1909.....Dendrochirotida
Order Elasipoda Theele 1882.....Elasipodida
Order Aspidochirota MacBride 1909.....Aspidochirotida
Order Molpadonia Ekman 1925.....Molpadonida
Order Apoda Lampert 1885.....Apodida
Phylum Priapuloidea Hyman 1940.....Priapuloida
Phylum Annelida Lamarck 1809.....Annelida
Class Archiannelida Hatschek 1893.....Archiannelidea
Class Polychaeta Grube 1851.....Polychaetea
Subclass Phaenerocephala Benham 1894.....Phaenerocephalia
Order Nereidiformia Benham 1894.....Nereidiformida
Order Spioniformia Soderström 1900.....Siponiformida
Order Terebelliformia Benham 1894.....Terebelliformida
Order Capitelliformia Benham 1894.....Capitelliformida
Order Scoleciformia Benham 1894.....Scoleciformida
Subclass Cryptocephala Benham 1894.....Cryptocephalia
Order Sabelliformia Benham 1894.....Sabelliformida
Order Hermelliformia Benham 1894.....Hermelliformida
Class Myzostoma Graff 1884.....Myzostomea
Class Oligochaeta Grube 1850.....Oligochaetea
Order Plesiopora plesiotheca Michaelsen 1930.....Plesiopborida plesiotheca
Order Plesiopora prosotheca Michaelsen 1930.....Plesiopborida prosotheca
Order Prosopora Michaelsen 1930.....Prosoporida
Order Opisthopora Michaelsen 1930.....Opisthoporida
Class Hirudinea Lamarck 1818.....Hirudinea
Order Rhynchobdellida Blanchard 1887.....Rhynchobdellida
Order Gnathobdellida Vaillant 1890.....Gnathobdellida
Order Pharyngobdellida Johansson 1913.....Pharyngobdellida
Phylum Echiuroidea Ricketts 1939.....Echiuroida
Class Echiurida Savigny 1817.....Echiuridea
Order Echiuroinea Bock 1942.....Echiuroinida
Order Xenopneusta Fisher 1946.....Xenopneustida
Order Heteromyota Fisher 1946.....Heteromyotida
Class Sactosomatida Fisher 1946.....Sactosomatidea
Phylum Sipunculoidea Hyman 1940.....Sipunculoida
Phylum Onychophora Grube 1851.....Onychophora
Phylum Arthropoda Siebold & Stannius 1845.....Arthropoda
Subphylum *Trilobita Schlotheim 1820.....*Trilobita

Class *Hypoparia Beecher 1897 ..... *Hypoparea
Class *Opisthoparia Beecher 1897 ..... *Opisthoparea
Class *Proparia Beecher 1897 ..... *Proparea
Subphylum Chelicerata Dahl 1913 ..... Chelicerata
Class Merostomata Woodward 1878 ..... Merostomatea
Order *Eurypterida Woodward 1878 ..... *Eurypterida
Order *Synxiphosura Packard 1885 ..... *Synxiphosurida
Order Xiphosura Latreille 1806 ..... Xiphosurida
Class Pycnogonida Latreille 1804 ..... Pycnogonidea
Order Colossendeomorpha Cole 1905 ..... Colossendeomorphida
Order Nymphonomorpha Pocock 1904 ..... Nymphonomorphida
Order Ascorhynchomorpha Pocock 1904 ..... Ascorhynchomorphida
Order Pycnogonomorpha Pocock 1904 ..... Pycnogonomorphida
Class Arachnida Lamarck 1815 ..... Arachnidea
Order Scorpionida Latreille 1810 ..... Scorpionida
Order Palpigrada Thorelle 1888 ..... Palpigradida
Order Pedipalpi Latreille 1806 ..... Pedipalpida
Suborder Uropygi Thorell 1882 ..... Uropygina
Suborder Amblypygi Thorell 1883 ..... Amblypygina
Order Solpugida Sundevall 1833 ..... Solpugida
Order *Anthracomarti Karsch & Scudder ..... *Anthracomartida
Order Phalangida Latreille 1802 ..... Phalangida
Suborder Cyphophthalmi Simon 1879 ..... Cyphothalmina
Suborder Laniatores Thorell 1876 ..... Laniatorina
Suborder Palpatores Thorell 1876 ..... Palpatorina
Order Chelonethida Dugès 1834 ..... Chelonethida
Order Ricinulida Latreille 1802 ..... Ricinulida
Order Araneida Lamarck 1818 ..... Araneida
Suborder Liphistiomorphae ..... Liphistiomorphina
Suborder Mygalomorphae Banks 1905 ..... Mygalomorphina
Suborder Hypochilomorphae Petrunkevitch 1933 ..... Hypochilomorphina
Suborder Dipneumonomorphae Petrunkevitch 1933 ..... Dipneumonomorphina
Suborder Apneumonomorphae Petrunkevitch 1933 ..... Apneumonomorphina
Subclass Acarina Nitsch 1818 ..... Acarinia
Order Onychopalpida *Nom nov.* ..... Onychopalpida
Suborder Notostigmata With 1903 ..... Notostigmatina
Suborder Holothyroidea Reuter 1909 ..... Holothyroidina
Order Parasitiformes Reuter 1909 ..... Parasitida
Suborder Megisthanina Trägårdh 1946 ..... Megisthanina
Suborder Liroaspina Trägårdh 1946 ..... Liroaspina
Suborder Microgyniina Trägårdh 1942 ..... Microgyniina
Suborder Thinozerconina Trägårdh 1946 ..... Thinozerconina
Suborder Zerconina Trägårdh 1944 ..... Zerconina
Suborder Gamasides Trägårdh Leach 1814 ..... Gamasina
Suborder Trachytina Trägårdh 1937 ..... Trachytina
Suborder Uropodina Kramer 1881 ..... Uropodina
Suborder Diarthrophallina Trägårdh 1946 ..... Diarthrophallina
Suborder Caelenopsina Trägårdh 1938 ..... Caelenopsina
Suborder Fedrizziina Trägårdh 1938 ..... Fedrizziina
Suborder Ixodoidea Leach 1815 ..... Ixodina
Order Trombidiformes Reuter 1909 ..... Trombida
Suborder Tarsonemidae Canestrini & Fanzago 1877 ..... Tarsonemina

Suborder Endeostigmina Grandjean 1937 ..... Endeostigmina
Suborder Prostigmata Kramer 1877 ..... Prostigmatina
Suborder Tetrapodili Bremi 1872 ..... Tetrapodina
Order Sarcoptiformes Reuter 1909 ..... Sarcoptida
Suborder Acarida Latreille 1802 ..... Acaridina
Suborder Oribatei Dugès 1833 ..... Oribatidina
Subphylum Mandibulata McLeay 1821 ..... Mandibulata
Superclass Crustacea Pennant 1877 ..... Crustacea
Class Eucrustacea Kingsley 1894 ..... Eucrustacea
Subclass Branchiopoda Lamarck 1801 ..... Branchiopodia
Order Anostraca Sars 1867 ..... Anostracida
Order Notostraca Sars 1867 ..... Notostracida
Order Conchostraca Sars 1867 ..... Conchostracida
Order Cladocera Latreille 1829 ..... Cladocerida
Suborder Calyptomera Sars 1865 ..... Calyptomerina
Suborder Gymnomera Sars 1865 ..... Gymnomerina
Subclass Ostracoda Latreille 1802 ..... Ostracodia
Order Myodocopa Sars 1866 ..... Myodocopida
Order Cladocopa Sars 1866 ..... Cladocopida
Order Podocopa Sars 1866 ..... Podocopida
Order Platycopida Sars 1866 ..... Platycopida
Subclass Copepoda Latreille 1831 ..... Copepodia
Order Eucopepoda Claus 1875 ..... Eucopepida
Suborder Calanoida Dana 1852 ..... Calanoina
Suborder Cyclopoida Burmeister 1834 ..... Cyclopina
Suborder Notodelphyoida Sars 1903 ..... Notodelphina
Suborder Monstrilloida Sars 1903 ..... Monstrillina
Suborder Caligoida Claus 1885 ..... Caligina
Suborder Lernaeopodida Stebbing 1910 ..... Lernaeopodina
Order Branchura Burmeister 1834 ..... Branchiurida
Suborder Arguloida Wilson 1932 ..... Argulina
Subclass Cirripedia Burmeister 1834 ..... Cirripedia
Order Thoracica Darwin 1854 ..... Thoracida
Suborder Turrilepadomorpha Clarke 1896 ..... Turrilepadomorphina
Suborder Lepadomorpha Darwin 1852 ..... Lepadomorphina
Suborder Verrucomorpha Darwin 1854 ..... Verrucomorphina
Suborder Balanomorpha Darwin 1854 ..... Balanomorphina
Order Ascothoracieda Lacaze-Duthiers 1883 ..... Ascothoracida
Order Apoda Darwin 1854 ..... Apodida
Order Rhizocephala F. Müller 1862 ..... Rhizocephalida
Subclass Malacostraca Latreille 1802 ..... Malacostracia
Series Leptostraca Claus 1880 ..... Leptostracia
Division Phyllocarida Packard 1879 ..... Phyllocarida
Order Nebaliacea Clarke 1882 ..... Nebaliacida
Order *Rhinocarina Clarke 1882 ..... *Rhinocarida
Order *Ceratiocarina Clarke 1882 ..... *Ceratiocarida
Order *Hymenocarina Clarke 1882 ..... *Hymenocarida
Division *Nahecarida Broili 1928 ..... *Nahecarida
Series Eumalacostraca Grobben 1892 ..... Eumalacostracia
Division Syncarida Packard 1886 ..... Syncarida
Order Anispidacea Thomson 1892 ..... Anaspidacida
Division Pericarida Calman 1904 ..... Pericarida
Order Mysidacea Boas 1883 ..... Mycidacida
Order Cumacea Kroyer 1846 ..... Cumacida

Order Tanaidacea Hansen 1895 ..... Tanaidacida
Order Thermosbaenacea ..... Thermosbaenacida
Order Isopoda Latreille 1817 ..... Isopodida
Suborder Flabellifera Sars 1882 ..... Flabelliferina
Suborder Valvifera Sars 1882 ..... Valviferina
Suborder Asellota Latreille 1806 ..... Asellina
Suborder Pheatoicidea Stebbing 1903 ..... Pheatoicina
Suborder Epicarida Latreille 1831 ..... Epicarina
Suborder Oniscoidea Sars 1882 ..... Oniscina
Order Amphipoda Latreille 1816 ..... Amphipodida
Suborder Gammaridea Dana 1852 ..... Gammarina
Suborder Hyperiidea Dana 1852 ..... Hyperiina
Suborder Caprellidea Dana 1852 ..... Caprellina
Suborder Ingolfiellidea Hansen 1903 ..... Ingolfiellina
Division Eucarida Calman 1904 ..... Eucarida
Order Euphausiacea Boas 1883 ..... Euphausiida
Order Decapoda Latreille 1802 ..... Decapodida
Suborder Natantia Boas 1879 ..... Natantina
Suborder Reptantia Boas 1879 ..... Reptantina
Division Hoplocarida Calman 1904 ..... Hoplocarida
Order Stomatopoda Latreille 1817 ..... Stomatopodida
Superclass Progoneata Pocock 1893 ..... Progoneata
Class Pauropoda Lubbock 1866 ..... Pauropodea
Order Pauropoda Lubbock 1866 ..... Pauropodida
Suborder Ectomorpha Bagnall 1935 ..... Ectomorphina
Suborder Endomorpha Bagnall 1935 ..... Endomorphina
Class Symphyla Ryder 1880 ..... Symphylea
Order Symphyla Ryder 1880 ..... Symphylida
Class Diplopoda Latreille 1802 ..... Diplopodea
Subclass Pselaphognatha Latzel 1884 ..... Pselaphognathia
Order Ancyrotricha Cook 1895 ..... Ancyrotrichida
Order *Lophotricha Cook 1895 ..... *Lophotrichida
Subclass Chilognatha Leach 1914 ..... Chilognathia
Superorder Opisthandria Verhoeff 1894 ..... Opisthandrida
Order Limacomorpha Pocock 1894 ..... Limacomorphida
Order Oniscomorpha Pocock 1887 ..... Oniscomorphida
Suborder Sphaerotheria Brandt 1833 ..... Sphaerotherina
Suborder Glomeridia Brandt 1833 ..... Glomerina
Superorder Proterandria Verhoeff 1894 ..... Proterandrida
Order Colobognatha Brandt 1834 ..... Colobognathida
Order Nematophora Verhoeff 1913 ..... Nematophorida
Suborder Chordeumoidea Latzel 1884 ..... Chordeumoidina
Suborder Stemmiuloidea Cook 1895 ..... Stemmiuloidina
Suborder Striaroidea Cook 1896 ..... Striaroidina
Suborder Lysiopetaloidea Verhoeff 1900 ..... Lysiopetaloidina
Order Proterospermophora Verhoeff 1913 ..... Proterospermophorida
Suborder Polydesmidea Attems 1914 ..... Polydesmidina
Suborder Strongylosmidea Attems 1914 ..... Strongylosmidina
Order Opisthospermophora Verhoeff 1913 ..... Opisthospermophorida
Suborder Juloidea Meinert 1868 ..... Juloidina
Suborder Spiroboloidea Sylvestri 1896 ..... Spiroboloidina
Suborder Spirostreptoidea Pocock 1894 ..... Spirostreptoidina
Suborder Cambaloidea Bollman 1893 ..... Cambaloidina

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Superclass Opisthogoneata Pocock 1893
Class Chilopoda Latreille 1802
Subclass Pleurostigmorphora Pocock 1902
Superorder Epimorpha Haase 1880
Order Geophilomorpha Leach 1814
Order Scolopendromorpha Newport 1844
Superorder Anamorpha Haase 1880
Order Lithobiomorpha Verhoeff 1907
Order Craterostigmorphora Pocock 1902
Subclass Notostigmorphora Pocock 1902
Order Scutigeromorpha Pocock 1895

Class Insecta Linnaeus 1758 ..... Insectea
Subclass Apterygota Lang 1888 ..... Apterygotia
Order Protura Sylvestri 1907 ..... Proturida
Order Entotrophi Grassi 1898 ..... Entotrophida
Order Collembola Lubbock 1869 ..... Collembolida
Order Thysanura ~~Lubbock 1869~~ Latreille 1796 ..... Thysanurida
Subclass Pterygota Lang 1888 ..... Pterygotia
Order Odonata Fabricius 1872 ..... Odonatida
Order Ephemeroptera Haeckel 1896 ..... Ephemeropterida
Order Orthoptera Latreille 1796 ..... Orthopterida
Order Isoptera Brulle 1832 ..... Isopterida
Order Dermaptera Degeer 1773 ..... Dermapterida
Order Plecoptera Burmeister 1835 ..... Plecopterida
Order Embioptera Kusnesow 1903 ..... Embiopterida
Order Corrodentia Burmeister 1839 ..... Corrodentida
Order Zoraptera Silvestri 1913 ..... Zorapterida
Order Mallophaga Nitsch 1818 ..... Mallophagida
Order Anoplura Leach 1815 ..... Anoplurida
Order Hemiptera Linnaeus 1758 ..... Hemipterida
Suborder Heteroptera Latreille 1825 ..... Heteropterina
Suborder Homoptera Latreille 1817 ..... Homopterina
Order Thysanoptera Haliday 1836 ..... Thysanopterida
Order Neuroptera Linnaeus 1758 ..... Neuropterida
Order Mecoptera Packard 1886 ..... Mecopterida
Order Diptera Linnaeus 1758 ..... Dipterida
Suborder Nematocera Brauer 1883 ..... Nematocerina
Suborder Brachycera Macquart 1834 ..... Brachycerina
Order Siphonaptera Latreille 1825 ..... Siphonapterida
Order Trichoptera Kirby 1813 ..... Trichopterida
Order Lepidoptera Linnaeus 1758 ..... Lepidopterida
Suborder Jugatae Comstock 1892 ..... Jugatina
Suborder Frenatae Comstock 1892 ..... Frenatina
Suborder Ropalocera ~~Boisdurk 1836~~ Duméril 1806 ..... Ropalocerina
Order Megaloptera Latreille 1802 ..... Megalopterida
Order Raphidiodea ~~Alque 1897~~ Burmeister 1835 ..... Raphidiodida
Order Coleoptera Linnaeus 1758 ..... Coleopterida
Suborder Adephaga Leconte & Horne 1883 ..... Adephagina
Suborder Polyphaga Emery 1885 ..... Polyphagina
Order Strepsiptera Kirby 1813 ..... Strepsipterida
Order Hymenoptera Linnaeus 1758 ..... Hymenopterida
Suborder Chalastogastra Konow 1897 ..... Chalastogastrina
Suborder Clistogastra Konow 1905 ..... Clistogastrina
Order *Palaeodictyoptera Goldenberg 1854 ..... *Palaeodictyopterida
Order *Protoblattoidea Handlirsch 1906 ..... *Protoblattoida
Order *Protoephemeroidea Handlirsch 1908 ..... *Protoephemeroida
Order *Protodonata Brogniart 1884 ..... *Protodontida
Order *Permodonata ..... *Permodontida
Order *Hadentomoidea Handlirsch 1906 ..... *Hadentomoida
Order *Hapalopteroidea Handlirsch 1906 ..... *Hapalopteroida
Order *Mixotermitoidea Handlirsch 1906 ..... *Mixotermitoida
Order *Protorthoptera Handlirsch 1906 ..... *Protorthopterida
Order *Protohemiptera Handlirsch 1906 ..... *Protohemipterida
Phylum Mollusca Linnaeus 1758 ..... Mollusca

Subphylum Isopleura Lankester.....Isopleura
Class Amphineura von Ihering 1876.....Amphineurea
Order Polyplacophora Gray 1821.....Polyplacophorida
Suborder Eoplacophora Pilsbry 1892.....Eoplacophorina
Suborder Mesoplacophora Pilsbry 1892.....Mesoplacophorina
Suborder Teleoplacophora Pilsbry 1892.....Teleoplacophorina
Order Aplacophora von Ihering 1877.....Aplacophorida
Suborder Neomeniomorpha von Ihering 1877.....Neomeniomorphina
Suborder Chaetodermorpha von Ihering 1877.....Chaetodermorphina
Subphylum Prorhipidoglossomorpha Grobben.....Prorhipidoglossomorpha
Class Gastropoda Cuvier 1798.....Gastropodea
Subclass Streptoneura Spengel 1881.....Streptoneuria
Order Aspidobranchia Schweigger 1821.....Aspidobranchida
Suborder Docoglossa Troschel 1866.....Docoglossina
Suborder Rhipidoglossa Troschel 1866.....Rhipidoglossina
Order Pectinibranchia Cuvier 1817.....Pectinibranchida
Suborder Taenioglossa Troschel 1866.....Taenioglossina
Suborder Stenoglossa.....Stenoglossina
Subclass Euthyneura Spengel 1881.....Euthyneuria
Order Opisthobranchia Milne-Edwards 1846.....Opisthobranchida
Suborder Tectibranchia Cuvier 1817.....Tectibranchina
Suborder Nudibranchia Cuvier 1817.....Nudibranchina
Order Pulmonata Ehrenberg 1831.....Pulmonatida
Suborder Basommatophora A. Schmidt 1895.....Basommatophorina
Suborder Stylommatophora A. Schmidt 1895.....Stylommatophorina
Class Scaphopoda Bronn 1862.....Scaphopodea
Class Pelecypoda Goldfuss 1820.....Pelecypodea
Order Pterobranchia Blainville 1816.....Pterobranchida
Suborder Solenmyacea Swanson 1840.....Solenmyacina
Suborder Nuculacea Orbigny 1844.....Nuculacina
Order Filibranchia.....Filibranchida
Suborder Anomiacea Herrmannsen 1855.....Anomiacina
Suborder Arcacea Latreille 1825.....Arcacina
Suborder Mytilacea Latreille 1825.....Mytilacina
Suborder Pectinacea Reeve 1841.....Pectinacina
Suborder Dimyacea Lamarck 1807.....Dimyacina
Order Eulamellibranchia.....Eulamellibranchida
Suborder Ostracea Lamarck 1809.....Ostracina
Suborder Submytilacea Ferrusac.....Submytilacina
Suborder Tellinacea Lamarck 1819.....Tellinacina
Suborder Veneracea Menke 1828.....Veneracina
Suborder Cardiacea Lamarck 1809.....Cardiacina
Suborder Chamacea Geinitz 1864.....Chamacina
Suborder Myacea Menke 1828.....Mayacina
Suborder Adesmacea Blainville 1824.....Adesmacina
Suborder Anatinacea Dall 1895.....Anatinacina
Order Septibranchia Latreille 1825.....Septibranchia
Subphylum Siphonopoda Haan 1825.....Siphonopoda
Class Cephalopoda Cuvier 1798.....Cephalopodea
Order Tetrabranchia Owen 1832.....Tetrabranchida
Suborder Nautiloidea Lamarck 1809.....Nautiloidina
Suborder *Ammonitoidea Haan 1825.....*Ammonitoidina
Order Dibranchia Owen 1832.....Dibranchida

Suborder Vampyromorpha Robson 1929 ..... Vampyromorphina
Suborder Decapoda Leach 1817 ..... Decapodina
Suborder Octopoda Hasselquist 1850 ..... Octopodina
Phylum Chordata Haeckel 1874 ..... Chordata
Subphylum Tunicata Lamarck 1815 ..... Tunicata
Class Ascidiacea Blainville 1825 ..... Ascidiacea
Order Stolidobranchiata Lahille 1887 ..... Stolidobranchida
Order Aspiraculata Seeliger 1909 ..... Aspiraculida
Order Phlebobranchiata Lahille 1887 ..... Phlebobranchida
Order Aplousobranchiata Lahille 1887 ..... Aplousobranchida
Class Larvacea Herdman 1882 ..... Larvacea
Subclass Pyrosomidae Jones 1848 ..... Pyrosomidia
Class Thaliacea Vander Haven 1850 ..... Thaliacea
Order Salpida Jones 1848 ..... Salpida
Order Doliolida Keferstein 1862 ..... Doliolida
Division Acrania Haeckel 1866
Subphylum Leptocardii J. Müller 1845 ..... Leptocardia
Class Amphioxi J. Müller 1844 ..... Amphioxea
Order Amphioxi J. Müller 1844 ..... Amphioxida
Division Craniata Grobben 1912 ..... Craniata
Subdivision Anamnia
Superclass Pisces Linnaeus 1758 ..... Piscea
Class Agnatha ..... Agnathea
Subclass *Ostracodermi Cope 1889 ..... *Ostracodermia
Order *Heterostraci Lankester 1868 ..... *Heterostracida
Order *Osteostraci Lankester 1868 ..... *Osteostracida
Order *Anaspida Traquair 1899 ..... *Anaspida
Order *Palaeospondyloidea Sollas 1903 ..... *Palaespondylida
Subclass Marsipobranchii Bonaparte 1837 ..... Marsipobranchia
Order Hyperotreti Müller 1836 ..... Hyperotretida
Order Hyperoartii Müller 1836 ..... Hyperoartida
Class *Placodermi McCoy 1848 ..... *Placodermea
Order *Arthrodira Cope 1891 ..... *Arthrodirida
Suborder *Acanthaspida Newberry 1889 ..... *Acanthaspidina
Suborder *Coccosteoidea Woodward 1891 ..... *Coccosteina
Suborder *Homosteoidea Traquair 1889 ..... *Homosteoina
Suborder *Ptycodontoidea Woodward 1891 ..... *Ptycodontina
Order Antiarchi Cope 1885 ..... Antiarchida
Class Chondrichthyes J. Müller 1846 ..... Chondrichthea
Order Acanthodii Owen 1860 ..... Acanthodida
Order Stegoselachii ..... Stegoselachida
Order Cladoselachii Dean 1894 ..... Cladoselachida
Order Pleuracanthodii Cope 1889 ..... Pleuracanthodida
Order Elasmobranchii Bonaparte 1832 ..... Elasmobranchida
Suborder Selachii Cuvier 1829 ..... Selachina
Suborder Batoidea Gunther 1870 ..... Batina
Order Rhenanida Brioli 1892 ..... Rhenanida
Order Bradyodonti Woodward 1892 ..... Bradyodontida
Order Holocephali Bonaparte 1832 ..... Holocephalida
Class Osteichthyes ..... Osteichthyea
Subclass Actinopterygii Cuvier 1828 ..... Actinoptryia
Order Chondrostei J. Müller 1846 (Ganoids) ..... Chondrostida
Suborder Palaeoniscoidea Bridge 1879 ..... Palaeoniscina

Suborder Polypterini Bonaparte 1837 ..... Polypterina
Suborder Belonorhynchoidea Woodward 1890 ..... Belonorhynchina
Suborder Acipenseroidea Agassiz 1843 ..... Acipenserina
Order Holostei J. Müller 1846 (Ganoids) ..... Holostida
Suborder Semionotoidea Woodward 1890 ..... Semionotina
Suborder Amioidea Huxley 1861 ..... Amioidina
Suborder Pholidophoroidea Woodward 1890 ..... Pholidophorina
Order Teleostei Owen 1847 ..... Teleostida
Suborder Isospondyli Cope 1872 ..... Isospondylina
Suborder Ostariophysi Bonaparte 1909 ..... Ostariophysina
Suborder Apodes Rafinesque 1815 ..... Apodina
Suborder Haplomi Cope 1872 ..... Haplomina
Suborder Microcyprines Reagan 1911 ..... Microcyprina
Suborder Percesoces Cope 1871 ..... Percesocina
Suborder Hemibranchii Cope 1871 ..... Hemibranchina
Suborder Anacanthini J. Müller 1846 ..... Anacanthina
Suborder Acanthopterygii Cuvier 1828 ..... Acanthopterygina
Subclass Crossopterygii Huxley 1861 (Ganoids) ..... Crossopterygia
Order *Rhipidista Cope 1887 ..... *Rhipidistidae
Order Coelacanthini Agassiz 1843 ..... Coelacanthida
Subclass Dipnoi ..... Dipnoia
Superclass Tetrapoda Williston ..... Tetrapoda
Class Amphibia Linnaeus 1858 ..... Amphibia
Order *Labyrinthodontia Huxley 1871 ..... *Labyrinthodontia
Suborder Ichthyostegolia Save-Soderbergh 1934 ..... Ichthyostegatina
Suborder *Embolomeri Cope 1880 ..... *Embolomerina
Suborder *Rhachitomi Cope 1882 ..... Rhachitomina
Suborder *Stereospondyli Fraas 1889 ..... *Stereospondylina
Order Leptospondyli Zittel 1887 ..... Leptospondylida
Suborder *Micramphibia ..... *Micramphibina
Suborder *Lysorophia Cope 1889 ..... *Lysorophina
Suborder *Aistopoda Miall 1890 ..... *Aistopodina
Suborder Necteridia Miall 1890 ..... Necterina
Order *Phyllospondyli Credner 1881 ..... *Phyllospondylida
Order Caudata Oppel 1811 ..... Caudatida
Suborder Cryptobranchoidea Dana 1922 ..... Cryptobranchina
Suborder Ambystomoidea Noble 1931 ..... Ambystomina
Suborder Salamandroidea Cope 1890 ..... Salamandrina
Suborder Proteida Cope 1866 ..... Proteina
Suborder Meantes Linnaeus 1766 ..... Meantina
Order Salientia Laurenti 1768 ..... Salientida
Suborder Amphicoela Noble 1931 ..... Amphicoelina
Suborder Opisthocoela Nicholls 1916 ..... Opisthocoelina
Suborder Anomocoela Nicholls 1916 ..... Anomocoelina
Suborder Procoela Nicholls 1916 ..... Procoelina
Suborder Diplasiocoela Nicholls 1916 ..... Diplasiocoelina
Order Apoda Oppel 1911 ..... Apodida
Series Sauropsida Conybeare 1823
Class Reptilia Laurenti 1768 ..... Reptilea
Subclass Anapsida Osborn 1918 ..... Anapsidia
Order *Cotylosauria Cope 1880 ..... *Cotylosaurida
Suborder *Seymouriamorpha Watson 1917 ..... *Seymouriamorphina
Suborder *Diadectomorpha Case 1911 ..... *Diadectomorphina
Suborder *Captorhinomorpha Watson 1917 ..... *Captorhinomorphina

Order Chelonia Owen 1842 (Testudinata Oppel 1811) ..... Chelonida
Suborder Eunotosauria Watson 1914 ..... Eunotosaurina
Suborder Amphichelydia Lydekker 1889 ..... Amphichelina
Suborder Pleurodira Cope 1869 ..... Pleurodirina
Suborder Cryptodira Cope 1869 ..... Cryptodirina
Subclass *Ichthyopterygia Owen 1860 ..... *Ichthyopterygia
Order *Mesosauria Cope 1886 ..... *Mesosaurida
Order *Ichthyosauria Blainville 1835 ..... *Ichthyosaurida
Subclass *Synaptosauria Williston 1912 ..... *Synaptosauria
Order *Proterosauria Seeley 1871 ..... *Proterosaurida
Order *Sauropterygia Owen 1859 ..... *Sauropterygida
Suborder *Trachelosauria Brolili 1917 ..... *Trachelosaurina
Suborder *Tanysitrachelia Preyer 1931 ..... *Tanysitrachelina
Suborder *Nothosauria Deecke 1866 ..... *Nothosaurina
Suborder *Plesiosauria Andrews 1895 ..... *Plesiosaurina
Suborder *Placodontia Meyer 1863 ..... *Placodontina
Subclass Lepidosauria Zittel 1890 ..... Lepidosauria
Order Rhynchocephalia Gunther 1886 ..... Rhynchocephalida
Order *Eosuchia Broom 1714 ..... *Eosuchida
Order Squamata Oppel 1811 ..... Squamatida
Suborder Lacertilia Cuvier 1834 ..... Lacertilina
Suborder Ophidia Brongriart 1799 ..... Ophidina
Subclass Archosauria Cope 1891 ..... Archosauria
Order *Thecodontia Owen 1860 ..... *Thecodontida
Suborder *Pseudosuchia Cope 1891 ..... *Pseudosuchina
Suborder *Phytosauria Lydekker 1888 ..... *Phytosaurina
Order Crocodilia Wagler 1830 ..... Crocodilia
Suborder *Protosuchia Mook 1934 ..... *Protosuchina
Suborder Mesosuchia Mook 1934 ..... Mesosuchina
Suborder Eusuchia Mook 1934 ..... Eusuchina
Suborder Thallatosuchia Mook 1934 ..... Thallatosuchina
Order *Pterosauria Kaup 1834 ..... *Pterosaurida
Suborder *Rhamphorhynchoidii Abel 1919 ..... *Rhamphorhynchina
Suborder *Pterodactyloidea Seeley 1866 ..... *Pterodactylina
Order *Saurischia Seeley 1888 ..... *Saurischida
Suborder *Theropoda Marsh 1881 ..... *Theropodina
Suborder *Sauropoda Marsh 1878 ..... *Sauropodina
Order *Ornithischia Seeley 1888 ..... *Ornithischida
Suborder *Ornithopoda Cope 1869 ..... *Ornithopodina
Suborder *Stegosauria Cope 1880 ..... *Stegosaurina
Suborder *Ankylosauria Brown 1908 ..... *Ankylosauria
Suborder *Ceratopsia Zittel 1890 ..... *Ceratopsina
Subclass *Synapsida Osborn 1903 ..... *Synapsida
Order *Pelycosauria Cope 1878 ..... *Pelycosaurida
Order *Therapsida Broom 1905 ..... *Therapsida
Suborder *Anningiamorpha Broom 1927 ..... *Anningiamorphina
Suborder *Dromaesauria Matthew & Brown 1922 ..... *Dromaesaurina
Suborder *Dinocephalia Broom 1914 ..... *Dinocephalina
Suborder *Dicynodontia Owen 1859 ..... *Dicynodontina
Suborder *Theriodontia Owen 1859 ..... *Theriodontina
Suborder *Ictidosauria Broom 1912 ..... *Ictidosaurina
Suborder *Protodonta Osborn 1887 ..... *Protodontina
Class Aves Linnaeus 1758 ..... Avea

Subclass *Archaeornithes Cope 1898.....*Archaeornithia
Order Archaeopterygiformes Fürbrimger 1888.....*Archaeopterygiformida
Subclass Neornithes Reynolds 1897.....Neornithia
Superorder *Odontognathae March 1873.....*Odontognatha
Order *Hesperornithiformes March 1872.....*Hesperornithiformida
Order *Ichthyornithiformes March 1873.....*Ichthyornithiformida
Superorder Palaeognathae Pycraft 1910.....Palaeognathea
Order Struthioniformes Haeckel 1866.....Struthioniformida
Order Rheiformes Newton 1884.....Rheiformida
Order Casuariiformes Sclater 1880.....Casuariiformida
Order *Dinornithidae Stejneger 1884.....*Diornithida
Order *Aepyornithiformes Newton 1884.....*Aepyornithiformida
Order Apterygiformes Sclater 1880.....Apterygiformida
Order Tinamiformes Gray 1840.....Tinamiformida
Superorder Impennes Illiger 1811.....Impennea
Order Sphenisciformes Viellot 1818.....Sphenisciformida
Superorder Neognathae Pycraft 1896.....Neognathea
Order Gaviiformes Brandt 1839.....Gaviiformida
Order Procellariiformes Wagner 1843.....Procellariiformida
Order Pelecaniformes Stejneger 1885.....Pelecaniformida
Suborder Phaethontes Gray 1840.....Phaethontina
Suborder Pelacani Owen 1856.....Pelicanina
Suborder Fregatae Vigors 1830.....Fregatina
Suborder Odontopteryges Lydekker 1892.....Odontopterygina
Order Ciconiiformes Owen 1832.....Ciconiiformida
Suborder Ardea Wagler 1830.....Ardina
Suborder Balaenicipites Gould 1851.....Balaenicipitina
Suborder Ciconiae Bonaparte 1834.....Ciconina
Suborder Phoenicopteri Bonaparte 1831.....Phoenicopterina
Order Anseriformes Swanson 1837.....Anseriformida
Suborder Anhimae Brisson 1760.....Anhimina
Suborder Anseres Linnaeus 1735.....Anserina
Order Falconiformes Naumann 1822.....Falconiformida
Suborder Cathartidae Lafresnaye 1829.....Cathartina
Suborder Falcones Naumann 1822.....Falconina
Order Galliformes Latreille 1825.....Galliformida
Suborder Galli Dumeril 1806.....Gallina
Suborder Opisthocomi Gray 1840.....Opisthocomina
Order Gruiformes Stejneger 1885.....Gruiformida
Suborder Mesoenatides Lowe 1924.....Mesoenatidina
Suborder Turnices Gray 1840.....Turnicina
Suborder Grues Owen 1856.....Gruina
Suborder Heliornithes Gray 1840.....Heliornithina
Suborder Rhynocheti Gould 1837.....Rhynochetina
Suborder Eurypygae Illiger 1811.....Eurypygina
Suborder *Phororhaci Lydekker 1893.....*Phorohacina
Suborder Cariamae Brisson 1760.....Cariamina
Suborder Otides Wagler 1830.....Otidina
Order *Diatrymiformes Cope 1877.....*Diatrymiformida
Order Charadriiformes Fürbinger 1888.....Charadriiformida
Suborder Charadrii Huxley 1867.....Charadrina
Suborder Lari Bonaparte 1857.....Larina
Suborder Alcae Stejneger 1885.....Alcina

Corrections for "Zoological Names" Furnished by Dr. Alexander Wetmore

Page 20

Line 2—for Fürbrimger, read Fürbringer.

Lines 4, 5, 6—for March, read Marsh.

After line 7—(Palaeognathae) add: Order Caenagnathiformes. . . . Caenagnathiformida

Line 11—for Dinornithidae, read Dinornithiformes.

Line 16—for Viellot, read Vieillot.

After line 18 (Gaviiformes) add: Order Colymbiformes. . . . Colymbiformida

Line 21—for Phaethontes and Phaethontina, read Paëthontes and Phaëthontina.

Line 22—for Pelacani and Pelacanina, read Pelecani and Pelecanina.

Line 26—for Ardina, read Ardeina.

Line 30—for Swanson, read Swainson.

Line 34—for Cathartidae read Cathartae.

Line 51—for Charadrina, read Charadriina.

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Line 9—for Caprimulgada, read Caprimulgida.

Line 12—change Micropodiformes and Micropodiformida to Apodiformes and Apodiformida.

Line 13—change Micropodi and Micropodina, to Apodi and Apodina.

After line 20 (Coracii) add: Suborder Bucerotes. . . . . Bucerotina

Also near the bottom of page 9 put an asterisk before Palaeotremata.

Order Columbiformes Bonaparte 1852 ..... Columbiformida
Suborder Pterocletes Knowlton 1909 ..... Pterocletina
Suborder Columbae Bonaparte 1857 ..... Columbina
Order Psittaciformes Illiger 1811 ..... Psittaciformida
Order Cuculiformes Stejneger 1884 ..... Cuculiformida
Suborder Musophagi Sharpe 1891 ..... Musophagina
Suborder Cuculi Sharpe 1891 ..... Cuculina
Order Strigiformes Wagler 1830 ..... Strigiformida
Order Caprimulgiformes Stejneger 1885 ..... Caprimulgada
Suborder Steatornithes Bonaparte 1850 ..... Steatornithina
Suborder Caprimulgi Bonaparte 1840 ..... Caprimulgina
Order Micropodiformes Lucas 1889 ..... Micropodiformida
Suborder Micropodi Segler ..... Micropodina
Suborder Trochili Lesson 1931 ..... Trochilina
Order Coliiformes Swainson 1837 ..... Coliiformida
Order Trogoniformes Swainson 1831 ..... Trogoniformida
Order Coraciiformes Seebohm 1880 ..... Coraciiformida
Suborder Alcedines Bonaparte 1831 ..... Alcedina
Suborder Meropes Bonaparte 1831 ..... Meropina
Suborder Coracii Gray 1845 ..... Coracina
Order Piciformes Sharpe 1891 ..... Piciformida
Suborder Galbulae Fürbinger 1888 ..... Galbulina
Suborder Pici Wagler 1830 ..... Picina
Order Passeriformes Nitsch 1829 ..... Passeriformida
Suborder Eurylaimi Gadow 1893 ..... Eurylaimina
Suborder Tyranni Swainson 1837 ..... Tyrannina
Suborder Menurae Stejneger 1885 ..... Menurina
Suborder Passeres Linnaeus 1758 ..... Passerina
Class Mammalia Linnaeus 1758 ..... Mammalea
Subclass Prototheria Gill 1872 ..... Prototheria
Order Monotremata Tiedemann 1808 ..... Monotrematida
Subclass *Allotheria Marsh 1880 ..... *Allotheria
Order *Multituberculata Cope 1884 ..... *Multituberculatida
Suborder *Tritylodontoidea Simpson 1928 ..... *Tritylodontoidea
Suborder *Plagiaulacoidea Simpson 1928 ..... *Plagiaulacoidina
Order *Tricodonta Osborn 1888 ..... *Tricodontida
Subclass Theria Parker & Haswell 1897 ..... Theria
Superorder *Pantotheria Marsh 1880 ..... *Pantotheria
Order *Pantotheria Marsh 1880 ..... *Pantotherida
Order *Symmetrodonta Simpson 1925 ..... *Symmetrodontida
Superorder Metatheria Huxley 1880 ..... Metatheria
Order Marsupialia Illiger 1811 ..... Marsupialida
Superorder Eutheria Gill 1872 ..... Eutheria
Order Insectivora Gray 1827 ..... Insectivorida
Order *Tillodontia Marsh 1875 ..... *Tillodontiida
Order Dermoptera Illiger 1811 ..... Dermopterida
Order Chiroptera Blumenbach 1779 ..... Chiropterida
Suborder Megachiroptera Dobson 1875 ..... Megachiropterina
Suborder Microchiroptera Dobson 1875 ..... Microchiropterina
Order *Taeniodonta Cope 1876 ..... *Taeniodontida
Order Edentata Vicq-d'Azyr 1792 ..... Edentatida
Suborder *Palaeanodonta Matthew 1918 ..... *Palaeanodontina
Suborder Xenarthra Gill 1884 ..... Xenarthrina

Suborder Loricata Owen 1842.....Loricatina
Suborder Pholidota Weber 1904.....Pholidotina
Order Tupulidentata Huxley 1872.....Tupulidentida
Order Rodentia Vicq-d'Azyr 1792.....Rodentida
Order Lagomorpha Brandt 1859.....Lagomorphida
Order Carnivora Vicq-d'Azyr 1792.....Carnivorida
Suborder *Creodonta Cope 1875.....*Creodontina
Suborder Fissipedia Fischer von Waldheim 1813.....Fissipedina
Suborder Pinnipedia Storr 1780.....Pinnipedina
Order Primates Linnaeus 1758.....Primatida
Suborder Lemuroidea Mivart 1864.....Lemuroidea
Suborder Tarsioidea Weber 1928.....Tarsioina
Suborder Anthropoidea Mivart 1864.....Anthropoidina
Order Cetacea Blumenbach 1779.....Cetacida
Suborder *Archaeoceti Flower 1883.....*Archaeocetina
Suborder Odontoceti Flower 1864.....Odontocetina
Suborder Mysticeti Flower 1864.....Mysticetina
Order *Condylarthra Cope 1881.....*Condylarthrida
Order *Amblypoda Cope 1875.....*Amblypodida
Order *Dinocerata Marsh 1872.....*Dinoceratida
Order *Notoungulata Roth 1903.....*Notoungulatida
Suborder *Entelonychia Ameghino 1893.....*Entelonychina
Suborder *Astrapotheria Ameghino 1893.....*Astrapotherina
Suborder *Toxodontia Owen 1858.....*Toxodontina
Suborder *Typotheria Zittel 1893.....*Typotherina
Order *Pyrotheria Ameghino 1895.....*Pyrotherida
Order *Litopterna Ameghino 1889.....*Litopternida
Order Proboscidea Illiger 1811.....Proboscida
Order *Barytheria Andrews 1904.....*Barytherida
Order Hyracoidea Huxley 1872.....Hyracida
Order Sirenia Illiger 1811.....Sirenida
Suborder Trichechiformes Hay 1923.....Trichechiformina
Suborder *Desmostyiformes Hay 1923.....*Desmostyiformina
Order *Embrithopoda Andrews 1905.....*Embrithopodida
Order Perissodactyla Owen 1848.....Perissodactylida
Suborder Tapiroidea Gray 1825.....Tapiroidina
Suborder Rhinocerotoidea Gray 1825.....Rhinocerotoidina
Suborder Equoidea Gray 1825.....Equoidina
Order Artiodactyla Owen 1848.....Artiodactylida
Suborder Bunodonta Kowalevsky 1823.....Bunodontina
Suborder *Anconodonta Matthew 1929.....*Anconodontina
Suborder Tylopoda Illiger 1811.....Tylopodina
Suborder Pecora Linnaeus 1758.....Pecorina